

High performance polymer composition

Patent Number: ☐ EP0827029, A3
Publication date: 1998-03-04
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Requested Patent: ☐ JP10097073
Application Number: EP19970306200 19970815
Priority Number(s): US19960705488 19960829
IPC Classification: G03F7/038
EC Classification: B41J2/14B, G03F7/038, G03F7/038S
Equivalents: ☐ US6124372

Abstract

Disclosed is a composition comprising a polymer with a weight average molecular weight of from about 1,000 to about 100,000, said polymer containing at least some monomer repeat units with a first, photosensitivity-imparting substituent which enables crosslinking or chain extension of the polymer upon exposure to actinic radiation, said polymer also containing a second, thermal sensitivity-imparting substituent which enables further crosslinking or chain extension of the polymer upon exposure to temperatures of about 140 DEG C and higher, wherein the first substituent is not the same as the second substituent, said polymer being selected from the group consisting of polysulfones, polyphenylenes, polyether sulfones, polyimides, polyamide imides, polyarylene ethers, polyphenylene sulfides, polyarylene ether ketones, phenoxy resins, polycarbonates, polyether imides, polyquinoxalines, polyquinolines, polybenzimidazoles, polybenzoxazoles, polybenzothiazoles, polyoxadiazoles, copolymers thereof, and mixtures thereof.

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